## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Open Flow			Total Date				ADLA	1- 45				
✓ Deliverabilt	Deliverability Test Date: 06/08/2014 to 06				API No. 15 13/2014 071-20844-000			)				
Company	Horseshoe	pe Operating, Inc.			Lease Wear			#3	Well Number #3			
County Greeley	Location S E N W		Section 30			TWP 17S		RNG (E/W) 40W		Acres Attributed		
1 1010				Reservoir Lower Winfield, Upper Ft. Riley				Gas Gathering Connection DCP Midstream				
				lug Back Total Depth 3010			Packer Se	t at				
Casing Size 4.5	Weight 10.5		Internal Diameter 4		Set at 3007		Perforations 2907-17 2921-36		To 29	To 2940-44 2956-70		
Tubing Size	Weight . 4.7		Internal Diameter 1.995		Set at 2907		Perforations		То	То		
Type Completion (Describe) Single (Gas)			Type Flui	Type Fluid Production Salt Water			Pump Unit or Traveling Plunger? Yes / No					
Producing Thru (A	Annulus / Tubing	3)		Carbon Dioxid	de		% Nitroge	n	Ga	s Gravity -	G <sub>g</sub>	
Tubing Vertical Depth(H)	Pressure Taps Flange Taps							eter Run) (I	Prover) Size			
Pressure Buildup:	Shut in06/	08 20	14 at_9:			Taken_06	6/13	20	14 at 7:0		(AM) (PM)	
Well on Line:		20	) at		(AM) (PM)	Taken		20	at		(AM) (PM)	
				OBSERVE	D SURFAC	E DATA			Duration of S	Shut-in 12	9.5 Hours	
Dynamic Size	mic Size Meter Differentia		Flowing Temperature t Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		Duration (Hours)		uid Produced (Barrels)	
Shut-In		2			160	173.4	paig	psia	129.5	n/a	n/a	
Flow												
				FLOW STR	EAM ATTR	IBUTES						
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	perfiecient $\frac{Meter}{(F_b)(F_p)}$ $\frac{ProverPressure}{F_b \times h}$		Gravity To		Flowing Temperature Factor F <sub>f1</sub>	Fa	riation actor = pv	Metered Flow R (Mcfd)		GOR Flo (Cubic Feet/ Barrel) Gra		
			(OPEN FLO	OW) (DELIV	ERABILITY	) CALCUL	ATIONS			(D.)2 0	007	
(P <sub>c</sub> ) <sup>2</sup> =	: (P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =	9	% (F	P <sub>c</sub> - 14.4) +	14.4 =	:		$(P_a)^2 = 0.$ $(P_d)^2 =$		
$(P_c)^2 - (P_d)^2$ 2. $P_c^2 - F_d^2$ form 1. or and d		LOG of formula 1. or 2. and divide by:	formula 1. or 2. and divide   P 2 - P 2		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		De	Open Flow Deliverability Equals R x Antilog (Mcfd)		
					-							
Open Flow		Mcfd @ 14.6	S5 psia		Deliverab	oility			Mcfd @ 14.69	5 psia		
	nod authority			states that h			o maka sh-				wlodge of	
The undersignee facts stated the	ned authority, or							tober	lly		20 14 .  Receive CORPORATION	
	Witness (i	f any)			-	7		Fo	company	A	NV 1 n	
	For Comm	ission			-	•		Chec	ked by	CON	SERVATION D WICHITA, KS	

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that the foregoing pressure information and statements contained on this application form are true and
correct to the best of my knowledge and belief based upon available production summaries and lease records
of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby request a one-year exemption from open flow testing for the
gas well on the grounds that said well:
(Check one) is a coalbed methane producer
is cycled on plunger lift due to water
is a source of natural gas for injection into an oil reservoir undergoing ER
is on vacuum at the present time; KCC approval Docket No
is not capable of producing at a daily rate in excess of 250 mcf/D
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Date: _10/28/2014
Signature:

## Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.